Science Park/West End Station Accessibility Improvements

Presented to:
Massachusetts Bay Transportation Authority

Presented by:
AECOM

Public Meeting/Scoping Session

July 28, 2009

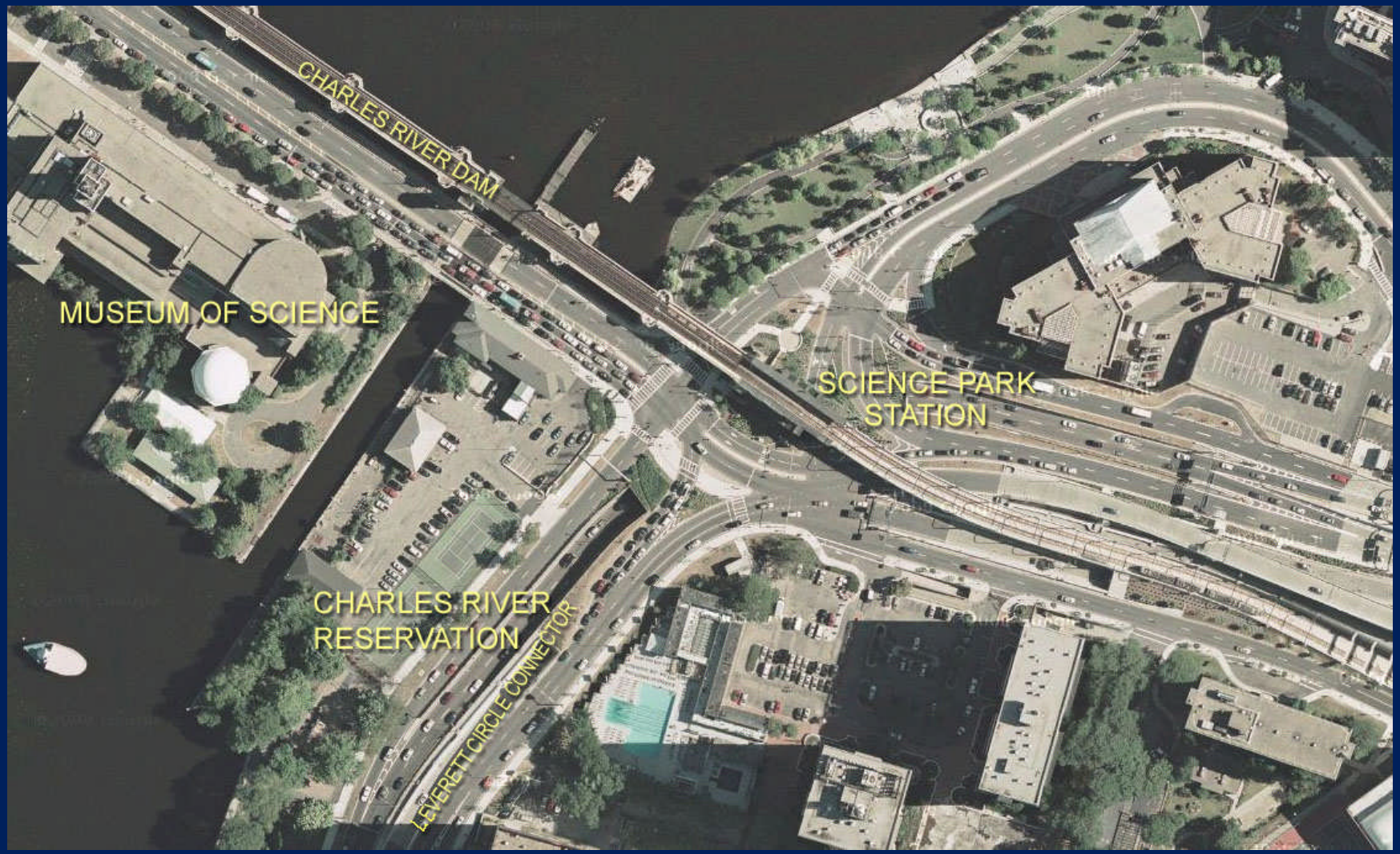
AECOM

Agenda

- Introduction
- Project presentation
- Next steps
- Comments

AECOM

Project Site



AECOM

Project Purpose

- Renovate the station to comply with ADA requirements:
  - Add two elevators
  - Raise platform 8 inches
  - Widen platform over the viaduct
  - Install mini-high level platforms
  - New outbound canopy
  - Install higher safety railings

AECOM

Existing – South Elevation

AECOM

Proposed - South Elevation

AECOM

Project Schedule

- 100% Design — Completed June, 2009
- Bid — September, 2009
- Construction — Spring, 2010
- Completion — 2012

AECOM

Environmental Issues

- Historic, Archaeological, and Parkland Resources
- Land Use
- Construction Impacts

Historic Resources

- Charles River Basin Historic District and contributing elements - NR
- Lechmere Viaduct – NR Eligible
- Science Park/West End Station – NR Eligible

AECOM

Historic and Archaeological Resource Impacts

- Adverse effect to Science Park/ West End Station from proposed accessibility improvements
- Adverse effect to the Lechmere Viaduct from:
  - platform and safety improvements
  - removal and replacement of balustrades.
- Adverse effect to archaeological resources from elevator tower foundation.

Historic/Archaeological Resource Mitigation

- Coordination/consultation with BLC, CHC, MHC
- MOA
  - Archival photographic documentation
  - Design review
  - Historical interpretative display
  - Architectural/ Masonry Conservator
    - Color and texture for balustrade reconstruction
    - Cleaning of existing concrete.

Land Use

Impact

- 1,325 square feet of DCR land within Leverett Circle

Mitigation

- Agreements with DCR for permanent taking and temporary construction easements
- Article 97 disposition

Permitting

- WPA Request for Determination of Applicability
  - Negative determination received
- Chapter 91 license
  - Water dependent use for public benefit

Suggested Construction Phasing

24 month construction duration. Work to be done in phases

- Station open for regular hours
- First: Close north platform for 6 months and use track crossing
- Second: Close south platform for 6 months and use track crossing
- Stair towers replacement and elevator construction is concurrent within the respective phase
- Platform demolition with jack hammering can be done during the day to reduce night time community impact

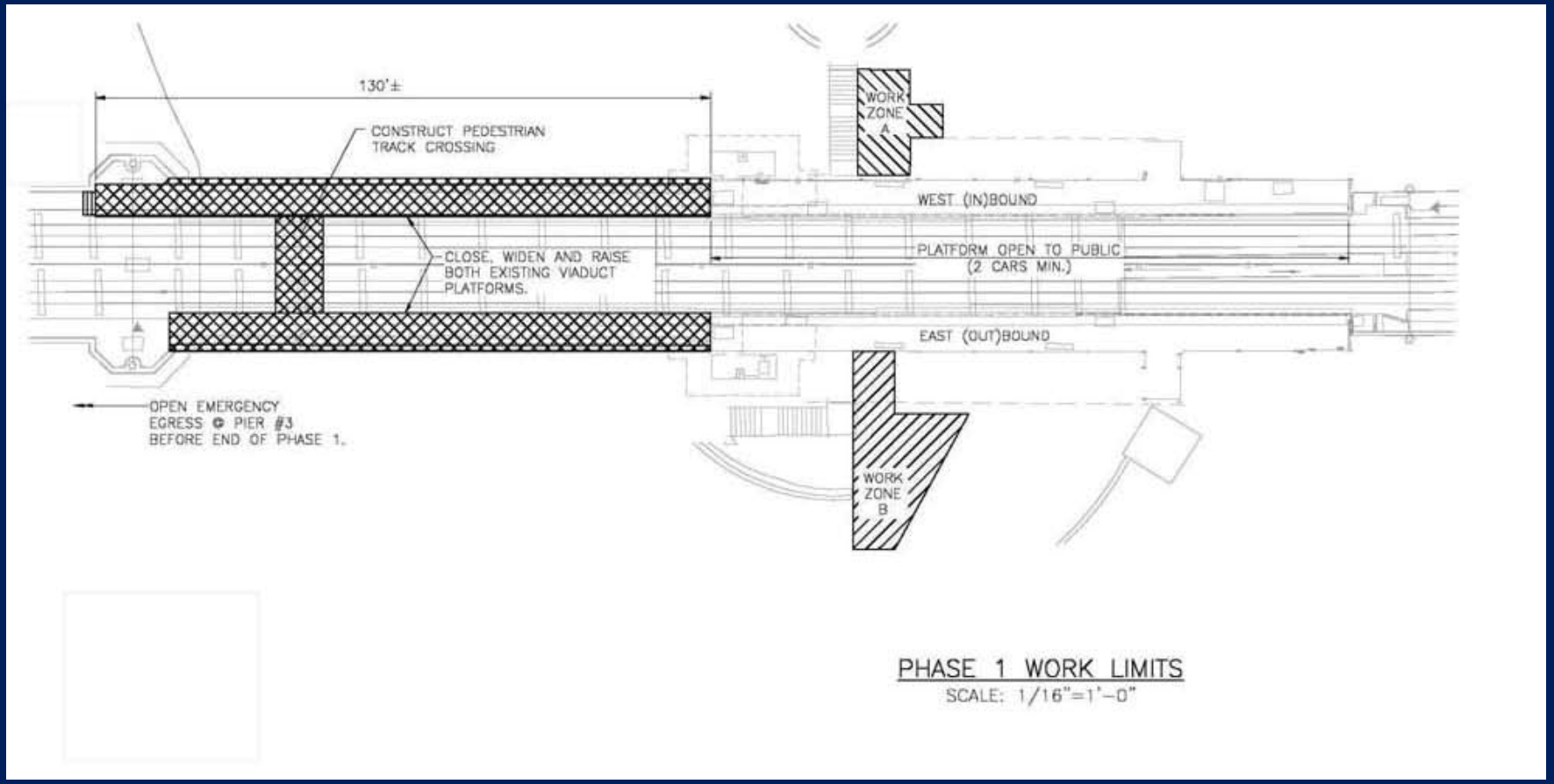
AECOM

Station Closings

- Twelve weekend closings for concrete placement and finishes, and power and signal work – Busing
- Eighteen 9PM to 5AM station closings to install precast platform slabs and parapet walls on viaduct – Busing
- Approximately 9 months of 1AM to 5AM power outages

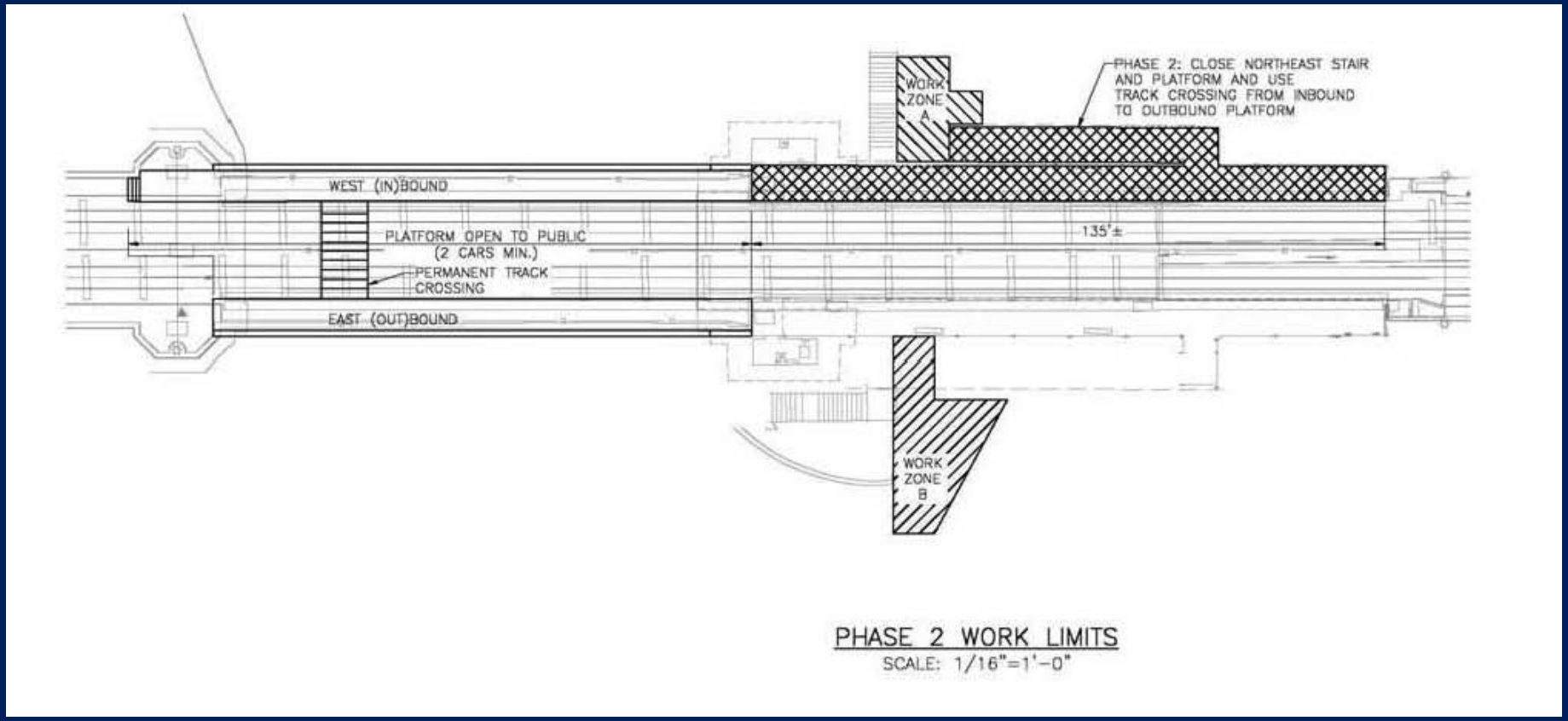
AECOM

Construction Phase 1


130'±
CONSTRUCT PEDESTRIAN TRACK CROSSING
CLOSE, WIDEN AND RAISE BOTH EXISTING VIADUCT PLATFORMS.
OPEN EMERGENCY EGRESS @ PIER #3 BEFORE END OF PHASE 1.
WORK ZONE A
WEST (IN)BOUND
PLATFORM OPEN TO PUBLIC (2 CARS MIN.)
EAST (OUT)BOUND
WORK ZONE B
PHASE 1 WORK LIMITS
SCALE: 1/16"=1'-0"

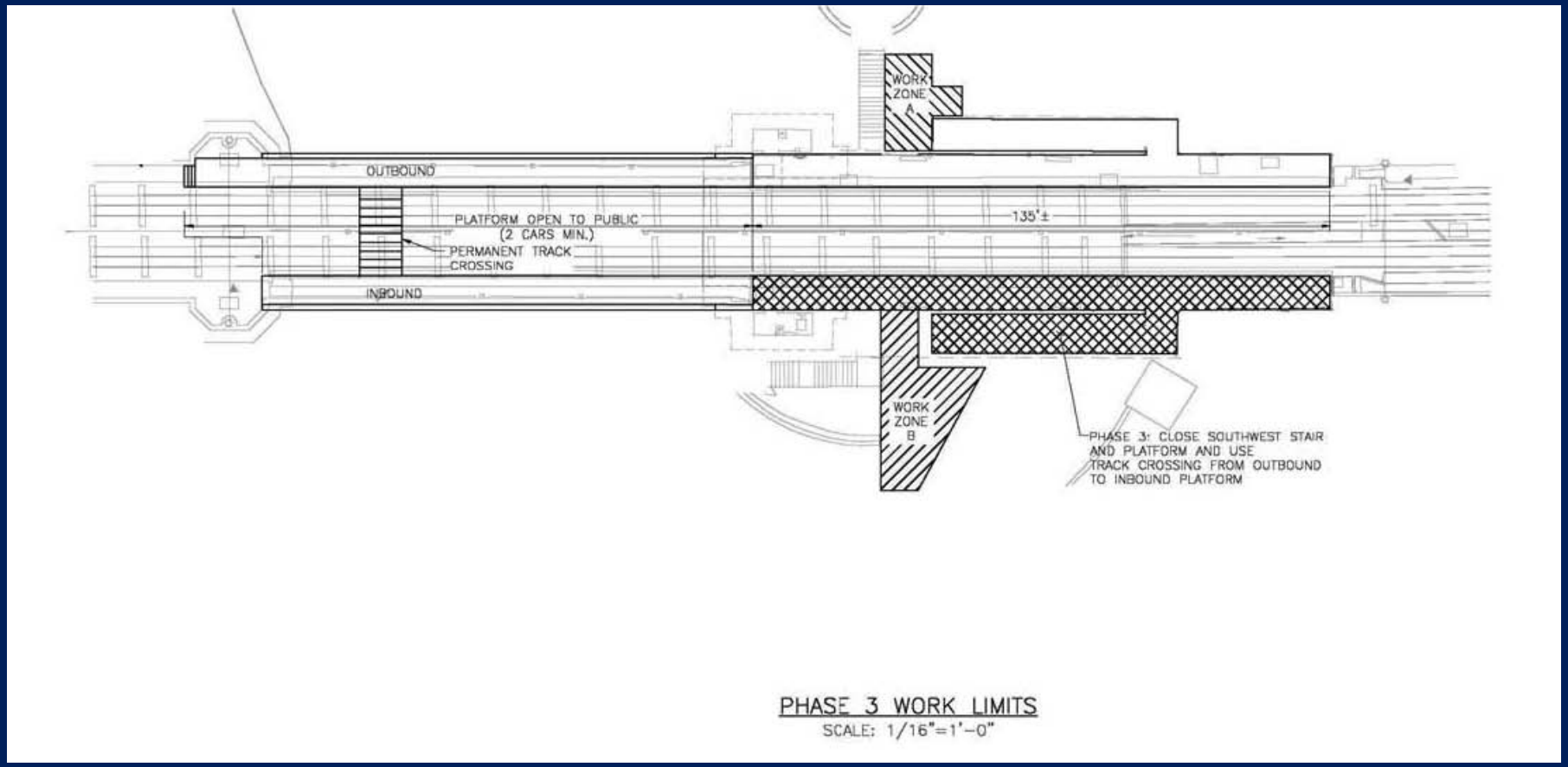
AECOM

Construction Phase 2


WORK ZONE A
PHASE 2: CLOSE NORTHEAST STAIR AND PLATFORM AND USE TRACK CROSSING FROM INBOUND TO OUTBOUND PLATFORM
WEST (IN)BOUND
PLATFORM OPEN TO PUBLIC (2 CARS MIN.)
PERMANENT TRACK CROSSING
135'±
EAST (OUT)BOUND
WORK ZONE B
PHASE 2 WORK LIMITS
SCALE: 1/16"=1'-0"

AECOM

Construction Phase 3


WORK ZONE A
OUTBOUND
PLATFORM OPEN TO PUBLIC (2 CARS MIN.)
PERMANENT TRACK CROSSING
INBOUND
135'±
WORK ZONE B
PHASE 3: CLOSE SOUTHWEST STAIR AND PLATFORM AND USE TRACK CROSSING FROM OUTBOUND TO INBOUND PLATFORM
PHASE 3 WORK LIMITS
SCALE: 1/16"=1'-0"

Construction Mitigation

- Development of a Maintenance and Protection of Traffic plan
- Removal of asbestos-containing materials and lead-based paint materials according to standards
- Noise control in compliance with federal, state and Boston guidelines
- Demolition during the day

Construction Mitigation

- Control of fugitive dust and construction vehicle emissions
- Community outreach during construction
- Construction updates posted on site

AECOM

Next Steps in the Environmental Process

- Comment period closes — August 11, 2009
- MEPA Certificate — August 21, 2009
- MOA Signed — Fall, 2009
- FONSI — Fall, 2009

AECOM

Comments to:

Secretary Ian Bowles
EOEA, Attn: MEPA Office
Attn: Holly Johnson
100 Cambridge St, Suite 900
Boston, MA 02114
Holly.s.johnson@state.ma.us

Andrew D. Brennan
Director of Environmental Affairs
MBTA
10 Park Plaza, RM 6720
Boston, MA 02116

DMJM HARRIS | AECOM

Comments